

In the claims:

1. (currently amended) An intraocular lens (IOL) assembly comprising:
a lens assembly comprising an interface element adapted for attachment to an ocular structure, said lens assembly comprising a tensing element adapted to expand and contract relative to said lens assembly and apply a tensing force on said ocular structure directed towards an inner volume of said lens assembly;
wherein said tensing element comprises a selectively inflatable and deflatable member, said selectively inflatable and deflatable member being inflatable with a fluid, and wherein said selectively inflatable and deflatable member is adapted to absorb and expel said fluid by osmotic pressure.
2. (currently amended) ~~The~~ An IOL assembly ~~according to claim 1,~~ comprising:
a lens assembly comprising an interface element adapted for attachment to an ocular structure, said lens assembly comprising a tensing element adapted to expand and contract relative to said lens assembly and apply a tensing force on said ocular structure directed towards an inner volume of said lens assembly;
_____ wherein said tensing element comprises a selectively inflatable and deflatable member, said selectively inflatable and deflatable member being inflatable with a fluid, and wherein said selectively inflatable and deflatable member comprises a biodegradable plug adapted to degrade with time.
3. (currently amended) The IOL assembly according to claim 2~~1~~, wherein said selectively inflatable and deflatable member comprises at least one at least partially annular channel formed in the inner volume of said lens assembly.
4. (original) The IOL assembly according to claim 3, wherein said at least one at least partially annular channel is generally concentric with a central axis of said lens assembly.
5. (currently amended) The IOL assembly according to claim 2~~1~~, wherein said selectively inflatable and deflatable member is formed with apertures through which said fluid flows.
- 6-7. (canceled)
8. (original) The IOL assembly according to claim 1, wherein said interface element comprises at least one of a roughened surface, a protrusion, a haptic, growth factor and biological adhesive.
- 9-10. (canceled)
11. (currently amended) The IOL assembly according to claim 2~~1~~, wherein said selectively inflatable and deflatable member comprises at least one inflatable and deflatable haptic.

12. (original) The IOL assembly according to claim 11, wherein said at least one inflatable and deflatable haptic comprises an annular segment attached to said selectively inflatable and deflatable member by means of a strut.
13. (original) The IOL assembly according to claim 11, wherein spaces between anterior and posterior faces of said selectively inflatable and deflatable member and said lens assembly are filled with a fluid.
14. (original) The IOL assembly according to claim 1, wherein said lens assembly comprises at least one of a convex lens, a concave lens, a monofocal lens, a multi-focal lens, a lens having a graded index of refraction, a holographic lens, a doublet lens, a Fresnel lens, a diffracting lens, and a telescopic lens.
15. (original) The IOL assembly according to claim 1, wherein said lens assembly comprises a lens with a predefined shape within a predefined range of diopters.
16. (original) ~~The~~ An IOL assembly according to claim 1, comprising:
a lens assembly comprising an interface element adapted for attachment to an ocular structure, said lens assembly comprising a tensing element adapted to expand and contract relative to said lens assembly and apply a tensing force on said ocular structure directed towards an inner volume of said lens assembly, wherein said lens assembly comprises at least three optical surfaces.
17. (new) The IOL assembly according to claim 2, wherein said interface element comprises at least one of a roughened surface, a protrusion, a haptic, growth factor and biological adhesive.
18. (new) The IOL assembly according to claim 2, wherein said selectively inflatable and deflatable member comprises at least one inflatable and deflatable haptic.
19. (new) The IOL assembly according to claim 2, wherein said lens assembly comprises at least one of a convex lens, a concave lens, a monofocal lens, a multi-focal lens, a lens having a graded index of refraction, a holographic lens, a doublet lens, a Fresnel lens, a diffracting lens, and a telescopic lens.
20. (new) The IOL assembly according to claim 2, wherein said lens assembly comprises a lens with a predefined shape within a predefined range of diopters.
21. (new) The IOL assembly according to claim 16, wherein said interface element comprises at least one of a roughened surface, a protrusion, a haptic, growth factor and biological adhesive.
22. (new) The IOL assembly according to claim 16, wherein said selectively inflatable and deflatable member comprises at least one inflatable and deflatable haptic.

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23. (new) The IOL assembly according to claim 16, wherein said lens assembly comprises at least one of a convex lens, a concave lens, a monofocal lens, a multi-focal lens, a lens having a graded index of refraction, a holographic lens, a doublet lens, a Fresnel lens, a diffracting lens, and a telescopic lens.

24. (new) The IOL assembly according to claim 16, wherein said lens assembly comprises a lens with a predefined shape within a predefined range of diopters.